INSTALLATION INSTRUCTIONS

(TABULAR DATA)

OUTDOOR SPLIT-SYSTEM AIR-CONDITIONER 3 TO 5 TONS

Supersedes: 550.46-N2.1Y (298) | 550.46-N2.1Y (1098)

035-15808-601B

MODELS H*RA036 THRU 060
3 Phase - 10 SEER

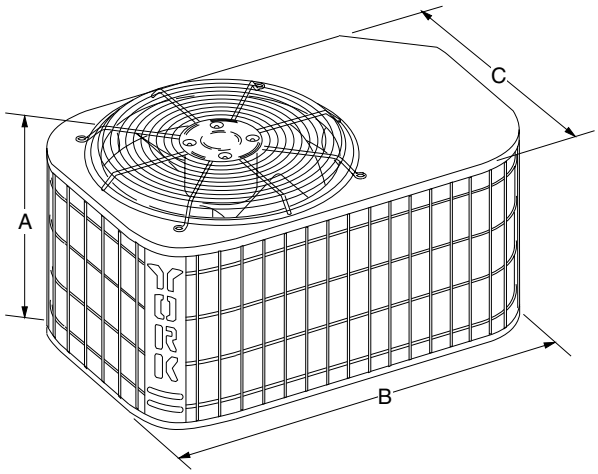
PHYSICAL AND ELECTRICAL DATA

MODEL			H1RA 036S25	H1RA 048S25	H1RA 060S25		H1RA 036S46	H1RA 048S46	H1RA 060S46
UNIT SUPPLY VOLTAGE			208 / 230 - 3 - 60				460 - 3 - 60		
NORMAL VOLTAGE RANGE[1]			187 to 252				432 to 504		
MINIMUM CIRCUIT AMPACITY			15.0	17.3	21.3		8.0	8.3	10.8
MAXIMUM OVERCURRENT DEVICE AMPS[2]			25	30	35		15	15	15
COMPRESSOR TYPE			Recip	Recip	Scroll		Recip	Recip	Scroll
COMPRESSOR AMPS		RATED LOAD	10.9	11.7	16.0		5.8	6.1	8.0
		LOCKED ROTOR	78	78	125		40	39	67
CRANKCASE HEATER			No	No	No		No	No	No
FAN MOTOR AMPS		RATED LOAD	1.4	1.3	1.3		.8	.7	8
FAN DIAMETER INCHES			18	22	22		18	22	22
FAN MOTOR		RATED HP	1/4	1/5	1/4		1/4	1/5	1/4
		NOMINAL RPM	1,100	850	850		1,100	850	850
		NOMINAL CFM	2,750	3,250	3,450		2,750	3,250	3,450
COIL	FACE AREA SQ. FT.		9.15	15.72	23.58		9.15	15.72	23.58
	ROWS DEEP		1	1	1		1	1	1
	FIN / INCH		18	18	18		18	18	18
LIQUID LINE OD (Factory Supplied)			3/8	3/8	3/8		3/8	3/8	3/8
VAPOR LINE OD (Factory Supplied)			3/4	7/8	7/8		3/4	7/8	7/8
UNIT CHARGE (LBS - OZ)[3]			3 - 15	7 - 5	9 - 7		3 - 15	7 - 5	9 - 7
CHARGE PER FT. (OZ)[3]			.68	.70	.70		.68	.70	.70
OPERATING WEIGHT LBS.			170	206	228		170	206	228

[1]Utilization range “A” in accordance with ARI standard 110.
[2]Dual element fuses or HACR circuit breaker. Refer to the NEC for proper wire sizing and length.
[3] The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant calculated, using the difference in length multiplied by the per foot value.

DIMENSIONS

All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.



UNIT MODEL HRA	DIMENSIONS			RECOMMENDED REFRIGERANT CONNECTION	
				LINE SIZE	
	A[1]	B	C	LIQUID	VAPOR
036	19	35	23	3/8	3/4
048	27	37	27		7/8
060	39	37	27		7/8

[1] Includes fan guard

R-22 SYSTEM CHARGING PROCEDURE

ADDITIONAL R-22 CHARGE / ORIFICE SIZE FOR VARIOUS MATCHED SYSTEMS				
OUTDOOR UNIT		H1RA036	H1RA048	H1RA060
UNIT ORIFICE(S)[1]		67, 71, 73	81	90
FACTORY R-22 CHARGE, LBS.- OZ.		3 - 15	7 - 5	9 - 7
INDOOR COIL	COIL ORIFICE[2]	SYSTEM ORIFICE + ADDITIONAL CHARGE, OZ		
G1NA036S17J	67	67 + 7	—	—
G1NA036S21C	67	67 + 7	—	—
G1NA048S21D	78	—	78 + 4	—
G1NA048S24P	78	—	78 + 4	—
G1NA060S24T	87	—	—	87 + 0
G1UA036S17, 21	73	71 + 0	—	—
G1UA048S21, 24	84	75 + 11	81 + 13	—
G1UA060S24	90	—	—	90 + 5
G2FD036S(H)17	75	73 + 4	—	—
G2FD036S(H)21	75	71 + 5	—	—
G2FD042S(H)17	78	—	—	—
G2FD048S(H)21, 24	78	—	81 + 15	—
G2FD060S(H)24	90	—	—	90 + 5
G1NF048SOF	73	67 + 7	—	—
G1NF048SOF	78	—	78 + 4	—
G1NF060SOF	87	—	—	87 + 0

[1] These orifices are packed in the instruction/warranty packet of each outdoor unit.
[2] These orifices are factory-mounted in the flow control device of each indoor coil.
[3] A TXV kit must be used with these coils to obtain system performance. (701,702,703 indicates 1TV07...series).

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
2. Verify the orifice size and the additional charge required for the specific evaporator coil in the system using the following above table.
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
4. Permanently mark the unit nameplate with the total system charge.
   Total System Charge = Base charge (as shipped) + adder for evaporator + adder for line set
5. If the orifice in the evaporator was changed verify the evaporator nameplate has been marked with the correct orifice size.

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